SAFETY DATA SHEET

1. Product and Company Identification

1.1 Product Identifiers:

Product Name: Phantom Premium Phloxine Eosin.

Catalog Number(s): 7123, and 7125.

1.2 Relevant Use of the Product and Uses Advised Against:

Relevant use of the product: Biological stain for histology and cytology/cytoplasmic stain.

Uses advised against: No information available.

1.3 Details of the Supplier of the Safety Data Sheet:

Company: Scigen Inc.
333 East Gardena Blvd.
Gardena, CA 90248

1.4 Emergency Telephone Number: 1.310.324.6576

2. Hazard(s) Identification

2.1 Classification of the Substance or Mixture:

GHS classification in accordance with 29 CFR 1910
Flammable Liquid: Category 2 H225
Acute Oral Toxicity: Category 4
Skin Corrosion: Category 1B H314
Serious Eye Damage: Category 1 H318
Specific Target Organ Toxicity: Information not available.
Specific Target Organ Toxicity Repeated Exposure: Information not available.

2.2 GHS Label Elements, Including Precautionary Statements:

GHS Label Elements: Exempt from GHS OSHA labeling mandate.
Hazard Pictograms: Exempt from GHS OSHA labeling mandate.
Single Word: Exempt from GHS OSHA labeling mandate.
Hazardous Statements: Exempt from GHS OSHA labeling mandate.
Reagents that are used for diagnosis and treatment of diseases are considered medical devises; which are under the jurisdiction of the FDA and are exempt from the OSHA labeling mandate.

2.3 Hazards Not Otherwise Classified by GHS: None.

2.4 >1% Of Mixture With Unknown Acute Toxicity (GHS US): None.

3. Composition/Information on Ingredients

3.1 Substance: Not Applicable.

3.2 Mixture: Hazardous Components.

Chemical Name:	CAS Number:	Composition by %:
Ethyl Alcohol	64-17-5	70-80
Methanol Alcohol	67-56-1	<5
Isopropyl Alcohol	67-63-0	<10
Methyl Isobutyl Ketone	108-10-1	<1
Acetic Acid	64-19-7	0.4-0.6

4. First Aid Measures

4.1 Description of First Aid Measures:

General Advise: Never give anything to an unconscious person. If you feel unwell, seek medical attention. Provide consulting physician with this safety data sheet.
Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. If symptoms persist after washing consult a physician.
Skin Contact: For minor exposure, prolonged, repeated exposure, wash affected area with mild soap and water. Generally this product is not a skin irritate. For severe conditions or if a rash occurs consult a physician.
Inhalation: If coughing or difficulty in breathing is experienced, remove victim from exposure to fresh air immediately. Administer oxygen or artificial respiration if needed. Consult a physician.

Ingestion: Rinse mouth with water. Call a poison control center immediately. If victim is conscious and alert give several glasses of water to dilute the solution. Do not induce vomiting unless advised to do so by a physician or poison control authority.
Physician Consult: Provide consulting physician with this safety data sheet.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:
General: May cause eye irritation, harmful if swallowed, may cause skin irritation.
Inhalation: Vapor or mist may cause respiration irritation.
Skin Contact: Prolonged skin contact may cause mild irritation.
Eye Contact: May cause irritation or serious damage.
Ingestion: May be harmful if swallowed, get medical attention.

4.3 Indication of any Immediate Medical Attention and Special Treatment:
Get medical attention if ingested.

5. Fire-Fighting Measures

5.1 Suitable (and Unsuitable) Extinguishing Media:
For small fires ABC rated portable fire extinguishers may be used. Large fires: professional fire fighters may use dry chemical, carbon dioxide, chemical foam, and /or water spray/mist.

5.2 Specific Hazards Arising From the Substance or Mixture:
Flammable liquid and vapor.
May form explosive vapor-air mixture.
Hazardous combustion products are carbon dioxide and carbon monoxide fumes.

5.3 Special Protective Equipment and Precautions for Firefighters:
Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH and full protective gear (sealed chemical suits) are necessary for fighting fires involving substantial volumes of this product.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment, and Emergency Procedure:
Spills and Leaks: Remove all sources of ignition. Contain spill. Soak up liquid with inert absorbent material. Use non-sparking tools during clean-up and take precautionary measures against static discharge. As in any case the severity of the spill or leak depends on the volume of the spill or leak. Existing ventilation in the area must also be considered in determining the severity of spill or leak. In a well-ventilated area, 200mL – 500 mL might be considered a small spill or leak.

6.2 Environmental Precautions:

Product should not be released into the environment. Caution; do not allow product to enter drain and sewer system.

6.3 Methods and Material for Containment and Cleanup:

Small Spills and Leaks: Remove all sources of ignition. Wear personal protective gloves, impermeable apron or lab coat, and splash proof goggles. Use an inert absorbent material to soak up the product or use a damp sponge or mop to absorb spilled liquid. Wash contaminated area with copious amounts of water. Stained area can be decolorized with household bleach.

Large Spills and Leaks: Remove all sources of ignition. Contain spill. Wear self-contained breathing apparatus, rubber gloves, and rubber boots. Absorb with inert material (vermiculite, sand, or earth), then place in a suitable container for disposal. Always comply with local, state, and federal regulations.

7. Handling and Storage

7.1 Precautions for Safe Handling:

Remove all sources of ignition and use in a well ventilated area or under. Take precautionary measures against static discharge. Wash hands thoroughly after handling. Avoid contact with eye, skin, and clothing. Wear protective gloves, impermeable apron or lab, coat and splash proof goggles when handling. Do not wear contaminated clothing after spill. Keep container closed, do not inhale or ingest.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store in tightly closed container in a well-ventilated cool dry area. Keep away from heat, sparks, and open flame. Store product at room temperature 15-30^{0}C. Do not store with or near peroxides, perchlorates, chromic acid, and nitric acid.

8. Exposure Controls/Personal Protection

8.1 Control Parameters:

Component:	CAS Number	Control Parameters:	Limit Values:	Agency(s):
Acetic Acid	64-19-7	TWA	10 ppm	OSHA NIOSH ACGIH
		STEL	15 ppm	NIOSH ACGIH
Ethyl Alcohol	64-17-5	TWA (8 Hour)	200 ppm	OSHA NIOSH ACGIH
		STEL	250 ppm	OSHA NIOSH ACGIH
Isopropyl alcohol	67-63-0	TWA	400 ppm	OSHA NIOSH
		STEL	500 ppm	OSHA NIOSH

Methanol	67-56-1	TWA	200 ppm	OSHA NIOSH ACGIH
		STEL	250 ppm	OSHA NIOSH ACGIH
Methyl Isobutyl Ketone	108-10-1	TWA	50 ppm	OSHA NIOSH
		STEL	75 ppm	OSHA NIOSH

8.2 Appropriate Engineering Controls:
Eye wash and safety shower should be available in working and storage vicinity. Use adequate general or local ventilation system to keep airborne concentration below the permissible exposure limits of the product components.

8.3 Personal Protective Equipment:
Wear protective gloves (nitrile), impermeable apron or lab coat, and splash proof goggles when handling this product.

8.4 Respiratory:
Under normal laboratory conditions the use of a respirator is not necessary.

9. Physical and Chemical Properties

Physical State: Liquid.
Color: Red Orange alcoholic solution.
Odor: Alcoholic like.
Order Threshold: Not determined.
pH: Not determined.
Melting Point: Not determined.
Freezing Point: Not determined.
Initial Boiling Point: Not determined.
Boiling Range: Not determined.
Flash Point: Not applicable.
Evaporation Rate: Not determined.
Flammability Rate (solid, gas): Not determined.
Explosive Limits:
Upper Limits: Not determined. **Lower Limits:** Not determined.

Vapor Pressure: Not determined.
Vapor Density: Not determined.
Relative Density: Not determined.
Water Solubility: Fully miscible.
Partition Coefficient (n-octanol/water): Not determined.
Auto-ignition Temperature: Not determined.
Decomposition Temperature: Not determined.

10 . Stability and Reactivity

10.1 Chemical Stability: Stable under normal laboratory conditions and recommended storage conditions.

10.2 Possibility of Hazardous Reactions: No hazardous reactions known under normal laboratory use or laboratory conditions. Strong oxidizing reagents.

10.3 Conditions to Avoid: Excessive heat and ignition sources. Direct sun light.

10.4 Incompatible Materials: Strong oxidizing reagents, strong acids, strong basis, and peroxides.

10.5 Hazardous Decomposition Products: Under normal laboratory conditions none. When heated to decomposition, carbon monoxide and carbon dioxide is produced.

11. Toxicological Information

11.1 Acute Toxicity:

Inhalation LD50: Data not available.

Dermal LD50: Data not available.

Oral LD50: Data not available.

Inhalation Effects / Respiration Sensitization: Data not available

Ingestion Effects: Data not available.

Skin Effects /Corrosion/Sensitization: Data not available.

Serious Eye Damage and Irritation Effects: Data not available.

Reproductive Toxicity: Data not available.

Germ Cell Mutagenicity: Data not available.

Teratogenicity: Data not available.

Carcinogenicity:

NTP	No component of this product is listed as a known or probable carcinogenic
IARC	Ethyl alcohol: Group 1
OSHA	Ethyl alcohol: is listed as a known or probable carcinogen

Short Term Exposure Specific Target Organ Toxicity (GHS): Data not available.

Long Term Exposure Specific Target Organ Toxicity (GHS): Data not available.

Aspiration Hazard: Data not available

11.2 Potential Health Effects:

Eyes:

- Acute: Contact of liquid with eyes may cause slight irritation which may result in conjunctivitis.
- Chronic: No chronic effects expected under normal laboratory use.

Skin:

- Acute: Brief contact with skin is nonirritating. Prolonged or frequent contact may be toxic, cause irritation, allergic reaction, and rash.
- Chronic: No chronic effects expected under normal laboratory use.

Ingestion:

- Acute: Ingestion is not likely to occur under normal conditions of use. This product contains methyl alcohol and may be fatal or cause blindness if large quantiles are ingested. This product cannot be made non-poisonous.
- Chronic: No chronic effects expected under normal laboratory use.

Inhalation:

- Acute: Data not available.
- Chronic: Data not available.

11.3 Symptoms Related to Physical, Chemical, and Toxicological Characteristic:
May include drowsiness, weakness, confusion, dizziness and nausea.
11.4 RTECS Information: Data not available.

12. Ecological Information

12.1 Ecotoxicity: Data not available.
12.2 Persistence and Degradability: Data not available.
12.3 Bioaccumulative Potential: Data not available.
12.4 Mobility in Soil: Data not available.
12.5 Other Adverse Effects: Data not available.
Ecotoxicity: Data not available.

13. Disposal Considerations

13.1 Product waste disposal:
Phantom Eosin-Y is a flammable liquid and should be disposed by a licensed waste hauler. Dispose in accordance with local, state, and federal regulations.
13.2 Contaminated Packaging: Dispose of as unused product.
13.3 RCRA P Series Waste: None of the ingredients are listed.
13.4 RCRA U Series Waste: Methanol waste number U154 (ignitable waste).

14. Transport information

14.1 UN Number: 1987.

14.2 UN Proper Shipping Name: Alcohol, N.O.S.

14.3 Transport Hazard Class: 3.

14.4 Packaging Group, If Applicable: Group ll.

14.5 Marine Pollutant: No.

14.6 Special Precautions: None known.

15. Regulatory Information

15.1 FEDERAL USA:

OSHA: This product is considered hazardous under the Hazard Communication Standard and the Laboratory Standard; it is a flammable liquid, toxic by ingestion, toxic by skin absorption, and a carcinogen.

TSCA: All ingredients of this product are listed on the TSCA inventory.

CERCLA: Reportable quantity 5,000 pounds: methyl alcohol and acetic acid.

SARA Title lll:

Extremely Hazardous Substance (section 355): Not listed.

Hazardous Categories (sections 311/312): Acute: Yes; Chronic: Yes**;** Fire: Yes**;** Pressure: no.

Toxic Chemicals (section 313): Methyl Alcohol subject to reporting.

RCRA: D001, and F003.

15.2 STATE:

California Prop 65: Methyl alcohol; ethyl alcohol (only when ingested).

Florida Toxic Substance List: Ethyl alcohol, methanol, MIBK, and acetic acid are listed on the state Toxic Substance List.

Pennsylvania Environmental Hazards Substance List: Ethyl alcohol, methyl alcohol, isopropyl alcohol, acetic acid, and MIBK are listed as an Environmental Hazards on the State Hazards Substance List.

16. Other Information:

16.1 NFPA Classification:

Health: 2

Fire: 3

Reactivity: 0

16.2 HMIS Classification:

Health: 2

Fire: 3

Reactivity: 0

16.3 Prepared By: Scigen Regulatory Affairs

16.4 Revision Date: 29-May-2015

16.5 Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive, it is intended to be used as a guide. No warrant, expressed or implied, is made; Scigen Inc. assumes no legal responsibility or liability whatsoever resulting from its use.